

DERWENT-ACC-NO: 1997-326215  
DERWENT-WEEK: 199730  
COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Manufacturing method of switch element used especially in super conductor applications e.g. SMES - involving joining of both ends of high-temperature superconductor small body that are joined to electrode which corresponds to junction area layer than energizing cross section of other part

PATENT-ASSIGNEE: FURUKAWA ELECTRIC CO LTD[FURU]

PRIORITY-DATA: 1995JP-0309718 (November 6, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 09129939 A	May 16, 1997	N/A
007	H01L 039/16	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 09129939A	N/A	1995JP-0309718
November 6, 1995		

INT-CL (IPC): H01H033/00; H01L039/16 ; H01L039/24

ABSTRACTED-PUB-NO: JP 09129939A

BASIC-ABSTRACT: The manufacturing method of switch element involves joining a pair of electrodes (32, 33) to both end faces in axial direction of high temperature superconductor small body (31). The layout of the high temperature superconductor small body is also performed axially.

Excitation means (34, 35) which applies magnetic field in orthogonal direction is provided. When applying magnetic field on the high-temperature superconductor small body when current flows through the

BEST AVAILABLE COPY

pair of electrodes,  
the switching element generates a voltage between the pair  
of electrodes Both  
ends of the high temperature superconductor small body are  
joined to the  
electrode which corresponds to the junction area that is  
larger than the  
energizing cross section of other part

ADVANTAGE - Provides practical super conductor power switch  
that has wide  
applications.

CHOSEN-DRAWING: Dwg.4/8

TITLE-TERMS:

MANUFACTURE METHOD SWITCH ELEMENT SUPER CONDUCTOR APPLY  
JOIN END HIGH  
TEMPERATURE SUPERCONDUCTING BODY JOIN ELECTRODE CORRESPOND  
JUNCTION AREA LAYER  
CROSS SECTION PART

DERWENT-CLASS: U14 X13

EPI-CODES: U14-F02B; X13-B09;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-270348

**BEST AVAILABLE COPY**